

Chapter 27

Report on Global Environment

Competitiveness of Benin

Benin is a country in West Africa. It covers 110.6 square kilometres and bordered by Togo to the west, by Nigeria to the east and by Burkina Faso and Niger to the north, bounded by the Atlantic Ocean to the south. It crosses the coast climate, vice equatorial climate and tropical region. And poor in mineral resources. It had a population of 9.1 million and domestic production the gross (GDP) of USD 7.29 billion in 2011. Through the evaluation of global environment competitiveness, we can know that the environment competitiveness index of Benin ranks at 63 among 133 countries.

Score:
50.28
Rank:
63

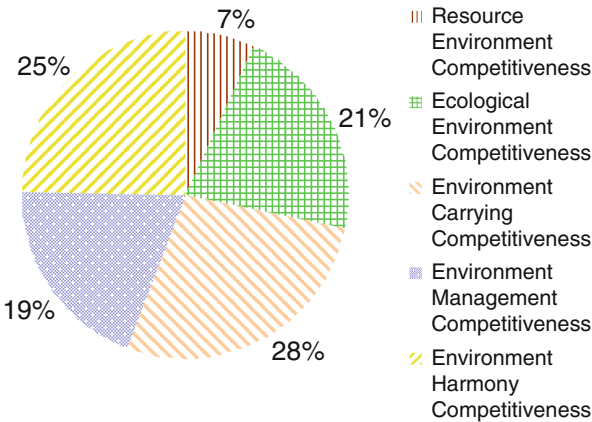


Fig. 27.1 Contribution of sub-index to GEC

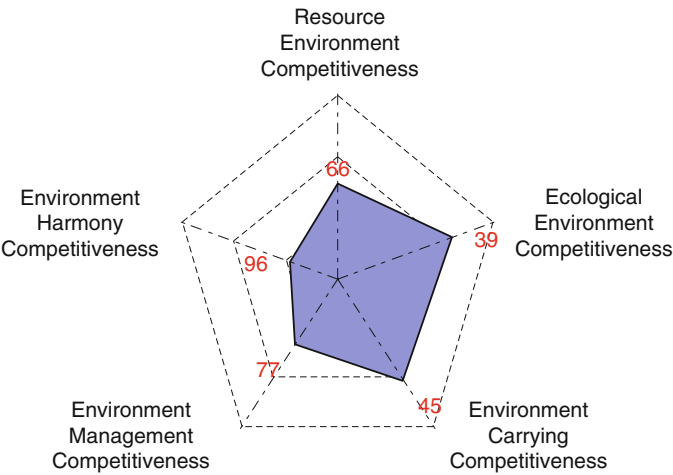


Fig. 27.2 Rank of sub-index of GEC

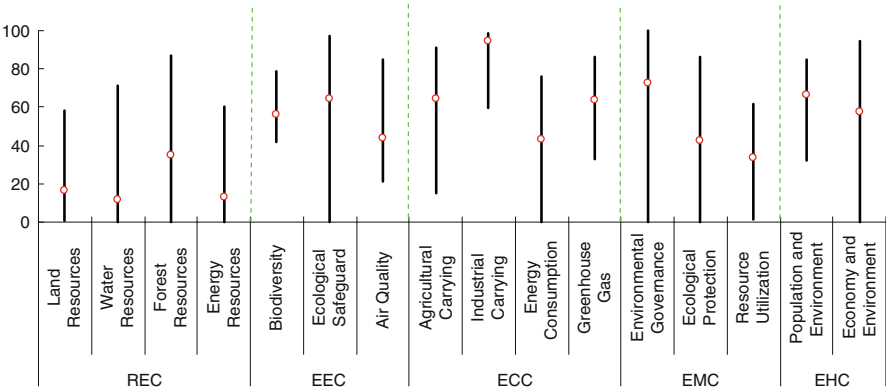


Fig. 27.3 Score and rank of the pillars of GEC

Table 27.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	17.69	66	Groundwater	2.30	102
1.1 Land Resources	16.47	43	Total internal renewable water resources	4.70	97
Land area per capita	2.17	74	1.3 Forest Resources	34.93	43
Percentage of arable land to total land area	38.74	33	Growing stock in forest and other wooded land	50.49	85
Arable land per capita	13.27	36	Proportion of land area covered by forest	46.86	35
1.2 Water Resources	11.52	83	Forest area per capita	3.46	52
Surface water	2.55	82	1.4 Energy Resources	13.19	36
Annual precipitation	36.54	55			

(continued)

Table 27.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	0.00	64	Energy consumption per unit of land area	99.93	34
Energy production	0.23	111	Ratio of clean energy consumption	0.00	116
Proportion of combustible renewable and waste to total energy consumption	60.26	19	Elasticity of energy consumption	30.36	3
Net energy imports of the energy consumption	7.06	79	Elasticity of electric power consumption	N/A	N/A
2 Ecological Environment Competitiveness	53.78	39	3.4 Greenhouse Gas	63.37	55
2.1 Biodiversity	56.19	96	Growth rate of CO ₂ emissions	40.92	106
Threatened fish species	87.26	71	Growth rate of Methane emissions	66.00	20
Threatened mammal species	94.02	64	CO ₂ emissions per unit of land area	99.96	35
Threatened plant species	99.24	67	CO ₂ emissions per unit of energy consumption	69.05	25
GEF benefits index for biodiversity	0.20	109	4 Environment Management Competitiveness	48.63	77
2.2 Ecological Safeguard	64.40	8	4.1 Environmental Governance	72.27	102
Terrestrial protected areas	64.40	17	Agricultural chemicals regulation	66.67	65
Marine protected areas	N/A	N/A	Percentage of the rural population with access to an improved water source	68.00	92
2.3 Air Quality	44.00	115	Percentage of the urban population with access to an improved water source	84.00	121
Inhalable particles (PM10)	64.96	96	4.2 Ecological Protection	42.18	33
Particulate matter (PM2.5)	71.50	106	Area of plantation and afforestation	0.02	107
Index of indoor air pollution	1.00	120	Biome protect	98.90	18
Nitrogen oxides emission	68.39	44	Overfishing of fishing resources	41.67	70
Sulfur dioxide emission	40.98	7	4.3 Resource Utilization	33.59	79
3 Environment Carrying Competitiveness	69.08	45	Utilization rate of water resources	0.02	124
3.1 Agricultural Carrying	64.64	86	Percentage of total internal renewable water resources to total water resources	36.93	101
Cereal yield per unit of arable land	11.62	108	Percentage of agricultural land to total land area	35.26	99
Fertilizer consumption per unit of arable land	100.00	2	Percentage of fossil fuel energy consumption to total energy consumption	62.17	21
Annual freshwater withdrawals for agriculture per unit of arable land	99.97	10			
3.2 Industrial Carrying	94.42	26			
Net exports of goods as a percentage of GDP	90.81	17			
Electric power consumption per unit of value added of industry	91.42	68			
SO ₂ emissions per unit of value added of industry	99.79	70			
Annual freshwater withdrawals for industry per value added of industry	95.67	87			
3.3 Energy Consumption	43.43	16			

(continued)

Table 27.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
5 Environment Harmony Competitiveness	62.23	96	CO ₂ emissions per capita	98.73	25
5.1 Population and Environment	66.59	89	Energy consumption per capita	97.86	15
Percentage of population with access to Improved sanitation facilities	12.00	125	5.2 Economy and Environment	57.87	96
Motor vehicles per 1,000 people	97.65	22	Land resource utilization efficiency	0.02	108
Renewable internal freshwater resources per capita	1.37	98	Sulfur dioxide emissions per unit of GDP	97.38	32
SO ₂ emissions per capita	99.75	5	Carbon dioxide emissions per unit of GDP	75.01	99
			Energy consumption per unit of GDP	59.06	115

Table 27.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	1	6	5	2
Ecological Environment Competitiveness	11	1	1	1	5	3
Environment Carrying Competitiveness	15	2	4	3	3	3
Environment Management Competitiveness	10	0	1	1	4	4
Environment Harmony Competitiveness	10	1	2	1	4	2
Total	60	4	9	12	21	14

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